

**CRF Errors Corrected by the STIC Systems Branch**

5610

PCT/0

Serial Number: 101088,567

CRF Processing Date: 4/2/02  
 Edited by: DC  
 Verified by: DC (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: **ENTERED**
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

**\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

3/1/95



PCT10

## RAW SEQUENCE LISTING

DATE: 04/02/2002

PATENT APPLICATION: US/10/088,567

TIME: 12:40:49

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04022002\J088567.raw

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3 <110> APPLICANT: JAPAN SCIENCE AND TECHNOLOGY CORPORATION
5 <120> TITLE OF INVENTION: Receptor proteins specifically recognizing bacterial DNA
7 <130> FILE REFERENCE: A031-29PCT
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/088,567
C--> 10 <141> CURRENT FILING DATE: 2002-03-19
12 <150> PRIOR APPLICATION NUMBER: 2000-219652
13 <151> PRIOR FILING DATE: 2000-07-19
15 <160> NUMBER OF SEQ ID NOS: 5
17 <170> SOFTWARE: PatentIn Ver. 2.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 3257
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
24 <220> FEATURE:
25 <221> NAME/KEY: CDS
26 <222> LOCATION: (107)..(3205)
28 <400> SEQUENCE: 1
29 ccgctgctgc ccctgtggga agggacctcg agtgtgaagc atccttcctt gtagctgctg 60
31 tccagtctgc ccgccagacc ctctggagaa gccctgccc cccagc atg ggt ttc 115
32 Met Gly Phe
33 1
35 tgc cgc agc gcc ctg cac ccg ctg tct ctc ctg gtg cag gcc atc atg 163
36 Cys Arg Ser Ala Leu His Pro Leu Ser Leu Leu Val Gln Ala Ile Met
37 5 10 15
39 ctg gcc atg acc ctg gcc ctg ggt acc ttg cct gcc ttc cta ccc tgt 211
40 Leu Ala Met Thr Leu Ala Leu Gly Thr Leu Pro Ala Phe Leu Pro Cys
41 20 25 30 35
43 gag ctc cag ccc cac ggc ctg gtg aac tgc aac tgg ctg ttc ctg aag 259
44 Glu Leu Gln Pro His Gly Leu Val Asn Cys Asn Trp Leu Phe Leu Lys
45 40 45 50
47 tct gtg ccc cac ttc tcc atg gca gca ccc cgt ggc aat gtc acc agc 307
48 Ser Val Pro His Phe Ser Met Ala Ala Pro Arg Gly Asn Val Thr Ser
49 55 60 65
51 ctt tcc ttg tcc tcc aac cgc atc cac cac ctc cat gat tct gac ttt 355
52 Leu Ser Leu Ser Ser Asn Arg Ile His His Leu His Asp Ser Asp Phe
53 70 75 80
55 gcc cac ctg ccc agc ctg cgg cat ctc aac ctc aag tgg aac tgc ccg 403
56 Ala His Leu Pro Ser Leu Arg His Leu Asn Leu Lys Trp Asn Cys Pro
57 85 90 95
59 ccg gtt ggc ctc agc ccc atg cac ttc ccc tgc cac atg acc atc gag 451
60 Pro Val Gly Leu Ser Pro Met His Phe Pro Cys His Met Thr Ile Glu
61 100 105 110 115
63 ccc agc acc ttc ttg gct gtg ccc acc ctg gaa gag cta aac ctg agc 499

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64 Pro Ser Thr Phe Leu Ala Val Pro Thr Leu Glu Glu Leu Asn Leu Ser
65      120      125      130
67 tac aac aac atc atg act gtg cct gcg ctg ccc aaa tcc ctc ata tcc 547
68 Tyr Asn Asn Ile Met Thr Val Pro Ala Leu Pro Lys Ser Leu Ile Ser
69      135      140      145
71 ctg tcc ctc agc cat acc aac atc ctg atg cta gac tct gcc agc ctc 595
72 Leu Ser Leu Ser His Thr Asn Ile Leu Met Leu Asp Ser Ala Ser Leu
73      150      155      160
75 gcc ggc ctg cat gcc ctg cgc ttc cta ttc atg gac ggc aac tgt tat 643
76 Ala Gly Leu His Ala Leu Arg Phe Leu Phe Met Asp Gly Asn Cys Tyr
77      165      170      175
79 tac aag aac ccc tgc agg cag gca ctg gag gtg gcc ccg ggt gcc ctc 691
80 Tyr Lys Asn Pro Cys Arg Gln Ala Leu Glu Val Ala Pro Gly Ala Leu
81 180      185      190      195
83 ctt ggc ctg ggc aac ctc acc cac ctg tca ctc aag tac aac aac ctc 739
84 Leu Gly Leu Gly Asn Leu Thr His Leu Ser Leu Lys Tyr Asn Asn Leu
85      200      205      210
87 act gtg gtg ccc cgc aac ctg cct tcc agc ctg gag tat ctg ctg ttg 787
88 Thr Val Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu
89      215      220      225
91 tcc tac aac cgc atc gtc aaa ctg gcg cct gag gac ctg gcc aat ctg 835
92 Ser Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu
93      230      235      240
95 acc gcc ctg cgt gtg ctc gat gtg ggc gga aat tgc cgc cgc tgc gac 883
96 Thr Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp
97      245      250      255
99 cac gct ccc aac ccc tgc atg gag tgc cct cgt cac ttc ccc cag cta 931
100 His Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu
101 260      265      270      275
103 cat ccc gat acc ttc agc cac ctg agc cgt ctt gaa ggc ctg gtg ttg 979
104 His Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu
105      280      285      290
107 aag gac agt tct ctc tcc tgg ctg aat gcc agt tgg ttc cgt ggg ctg 1027
108 Lys Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu
109      295      300      305
111 gga aac ctc cga gtg ctg gac ctg agt gag aac ttc ctc tac aaa tgc 1075
112 Gly Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys
113      310      315      320
115 atc act aaa acc aag gcc ttc cag ggc cta aca cag ctg cgc aag ctt 1123
116 Ile Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu
117      325      330      335
119 aac ctg tcc ttc aat tac caa aag agg gtg tcc ttt gcc cac ctg tct 1171
120 Asn Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Ser
121 340      345      350      355
123 ctg gcc cct tcc ttc ggg agc ctg gtc gcc ctg aag gag ctg gac atg 1219
124 Leu Ala Pro Ser Phe Gly Ser Leu Val Ala Leu Lys Glu Leu Asp Met
125      360      365      370
127 cac ggc atc ttc ttc cgc tca ctc gat gag acc acg ctc cgg cca ctg 1267
128 His Gly Ile Phe Phe Arg Ser Leu Asp Glu Thr Thr Leu Arg Pro Leu

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129          375          380          385
131 gcc cgc ctg ccc atg ctc cag act ctg cgt ctg cag atg aac ttc atc 1315
132 Ala Arg Leu Pro Met Leu Gln Thr Leu Arg Leu Gln Met Asn Phe Ile
133          390          395          400
135 aac cag gcc cag ctc ggc atc ttc agg gcc ttc cct ggc ctg cgc tac 1363
136 Asn Gln Ala Gln Leu Gly Ile Phe Arg Ala Phe Pro Gly Leu Arg Tyr
137          405          410          415
139 gtg gac ctg tcg gac aac cgc atc agc gga gct tcg gag ctg aca gcc 1411
140 Val Asp Leu Ser Asp Asn Arg Ile Ser Gly Ala Ser Glu Leu Thr Ala
141 420          425          430          435
143 acc atg ggg gag gca gat gga ggg gag aag gtc tgg ctg cag cct ggg 1459
144 Thr Met Gly Glu Ala Asp Gly Gly Glu Lys Val Trp Leu Gln Pro Gly
145          440          445          450
147 gac ctt gct ccg gcc cca gtg gac act ccc agc tct gaa gac ttc agg 1507
148 Asp Leu Ala Pro Ala Pro Val Asp Thr Pro Ser Ser Glu Asp Phe Arg
149          455          460          465
151 ccc aac tgc agc acc ctc aac ttc acc ttg gat ctg tca cgg aac aac 1555
152 Pro Asn Cys Ser Thr Leu Asn Phe Thr Leu Asp Leu Ser Arg Asn Asn
153          470          475          480
155 ctg gtg acc gtg cag ccg gag atg ttt gcc cag ctc tcg cac ctg cag 1603
156 Leu Val Thr Val Gln Pro Glu Met Phe Ala Gln Leu Ser His Leu Gln
157          485          490          495
159 tgc ctg cgc ctg agc cac aac tgc atc tcg cag gca gtc aat ggc tcc 1651
160 Cys Leu Arg Leu Ser His Asn Cys Ile Ser Gln Ala Val Asn Gly Ser
161 500          505          510          515
163 cag ttc ctg ccg ctg acc ggt ctg cag gtg cta gac ctg tcc cac aat 1699
164 Gln Phe Leu Pro Leu Thr Gly Leu Gln Val Leu Asp Leu Ser His Asn
165          520          525          530
167 aag ctg gac ctc tac cac gag cac tca ttc acg gag cta cca cga ctg 1747
168 Lys Leu Asp Leu Tyr His Glu His Ser Phe Thr Glu Leu Pro Arg Leu
169          535          540          545
171 gag gcc ctg gac ctc agc tac aac agc cag ccc ttt ggc atg cag ggc 1795
172 Glu Ala Leu Asp Leu Ser Tyr Asn Ser Gln Pro Phe Gly Met Gln Gly
173          550          555          560
175 gtg ggc cac aac ttc agc ttc gtg gct cac ctg cgc acc ctg cgc cac 1843
176 Val Gly His Asn Phe Ser Phe Val Ala His Leu Arg Thr Leu Arg His
177          565          570          575
179 ctc agc ctg gcc cac aac aac atc cac agc caa gtg tcc cag cag ctc 1891
180 Leu Ser Leu Ala His Asn Asn Ile His Ser Gln Val Ser Gln Gln Leu
181 580          585          590          595
183 tgc agt acg tcg ctg cgg gcc ctg gac ttc agc ggc aat gca ctg ggc 1939
184 Cys Ser Thr Ser Leu Arg Ala Leu Asp Phe Ser Gly Asn Ala Leu Gly
185          600          605          610
187 cat atg tgg gcc gag gga gac ctc tat ctg cac ttc ttc caa ggc ctg 1987
188 His Met Trp Ala Glu Gly Asp Leu Tyr Leu His Phe Phe Gln Gly Leu
189          615          620          625
191 agc ggt ttg atc tgg ctg gac ttg tcc cag aac cgc ctg cac acc ctc 2035
192 Ser Gly Leu Ile Trp Leu Asp Leu Ser Gln Asn Arg Leu His Thr Leu
193          630          635          640

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## RAW SEQUENCE LISTING

DATE: 04/02/2002

PATENT APPLICATION: US/10/088,567

TIME: 12:40:50

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04022002\J088567.raw

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195 ctg ccc caa acc ctg cgc aac ctc ccc aag agc cta cag gtg ctg cgt 2083
196 Leu Pro Gln Thr Leu Arg Asn Leu Pro Lys Ser Leu Gln Val Leu Arg
197      645      650      655
199 ctc cgt gac aat tac ctg gcc ttc ttt aag tgg tgg agc ctc cac ttc 2131
200 Leu Arg Asp Asn Tyr Leu Ala Phe Phe Lys Trp Trp Ser Leu His Phe
201 660      665      670      675
203 ctg ccc aaa ctg gaa gtc ctc gac ctg gca gga aac cag ctg aag gcc 2179
204 Leu Pro Lys Leu Glu Val Leu Asp Leu Ala Gly Asn Gln Leu Lys Ala
205      680      685      690
207 ctg acc aat ggc agc ctg cct gct ggc acc cgg ctc cgg agg ctg gat 2227
208 Leu Thr Asn Gly Ser Leu Pro Ala Gly Thr Arg Leu Arg Arg Leu Asp
209      695      700      705
211 gtc agc tgc aac agc atc agc ttc gtg gcc ccc ggc ttc ttt tcc aag 2275
212 Val Ser Cys Asn Ser Ile Ser Phe Val Ala Pro Gly Phe Phe Ser Lys
213      710      715      720
215 gcc aag gag ctg cga gag ctc aac ctt agc gcc aac gcc ctc aag aca 2323
216 Ala Lys Glu Leu Arg Glu Leu Asn Leu Ser Ala Asn Ala Leu Lys Thr
217      725      730      735
219 gtg gac cac tcc tgg ttt ggg ccc ctg gcg agt gcc ctg caa ata cta 2371
220 Val Asp His Ser Trp Phe Gly Pro Leu Ala Ser Ala Leu Gln Ile Leu
221 740      745      750      755
223 gat gta agc gcc aac cct ctg cac tgc gcc tgt ggg gcg gcc ttt atg 2419
224 Asp Val Ser Ala Asn Pro Leu His Cys Ala Cys Gly Ala Ala Phe Met
225      760      765      770
227 gac ttc ctg ctg gag gtg cag gct gcc gtg ccc ggt ctg ccc agc cgg 2467
228 Asp Phe Leu Leu Glu Val Gln Ala Ala Val Pro Gly Leu Pro Ser Arg
229      775      780      785
231 gtg aag tgt ggc agt ccg ggc cag ctc cag ggc ctc agc atc ttt gca 2515
232 Val Lys Cys Gly Ser Pro Gly Gln Leu Gln Gly Leu Ser Ile Phe Ala
233      790      795      800
235 cag gac ctg cgc ctc tgc ctg gat gag gcc ctc tcc tgg gac tgt ttc 2563
236 Gln Asp Leu Arg Leu Cys Leu Asp Glu Ala Leu Ser Trp Asp Cys Phe
237      805      810      815
239 gcc ctc tcg ctg ctg gct gtg gct ctg ggc ctg ggt gtg ccc atg ctg 2611
240 Ala Leu Ser Leu Leu Ala Val Ala Leu Gly Leu Gly Val Pro Met Leu
241 820      825      830      835
243 cat cac ctc tgt ggc tgg gac ctc tgg tac tgc ttc cac ctg tgc ctg 2659
244 His His Leu Cys Gly Trp Asp Leu Trp Tyr Cys Phe His Leu Cys Leu
245      840      845      850
247 gcc tgg ctt ccc tgg cgg ggg cgg caa agt ggg cga gat gag gat gcc 2707
248 Ala Trp Leu Pro Trp Arg Gly Arg Gln Ser Gly Arg Asp Glu Asp Ala
249      855      860      865
251 ctg ccc tac gat gcc ttc gtg gtc ttc gac aaa acg cag agc gca gtg 2755
252 Leu Pro Tyr Asp Ala Phe Val Val Phe Asp Lys Thr Gln Ser Ala Val
253      870      875      880
255 gca gac tgg gtg tac aac gag ctt cgg ggg cag ctg gag gag tgc cgt 2803
256 Ala Asp Trp Val Tyr Asn Glu Leu Arg Gly Gln Leu Glu Glu Cys Arg
257      885      890      895
259 ggg cgc tgg gca ctc cgc ctg tgc ctg gag gaa cgc gac tgg ctg cct 2851

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PATENT APPLICATION: US/10/088,567

DATE: 04/02/2002

TIME: 12:40:50

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04022002\J088567.raw

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260 Gly Arg Trp Ala Leu Arg Leu Cys Leu Glu Glu Arg Asp Trp Leu Pro
261 900 905 910 915
263 ggc aaa acc ctc ttt gag aac ctg tgg gcc tcg gtc tat ggc agc cgc 2899
264 Gly Lys Thr Leu Phe Glu Asn Leu Trp Ala Ser Val Tyr Gly Ser Arg
265 920 925 930
267 aag acg ctg ttt gtg ctg gcc cac acg gac cgg gtc agt ggt ctc ttg 2947
268 Lys Thr Leu Phe Val Leu Ala His Thr Asp Arg Val Ser Gly Leu Leu
269 935 940 945
271 cgc gcc agc ttc ctg ctg gcc cag cag cgc ctg ctg gag gac cgc aag 2995
272 Arg Ala Ser Phe Leu Leu Ala Gln Gln Arg Leu Leu Glu Asp Arg Lys
273 950 955 960
275 gac gtc gtg gtg ctg gtg atc ctg agc cct gac ggc cgc cgc tcc cgc 3043
276 Asp Val Val Val Leu Val Ile Leu Ser Pro Asp Gly Arg Arg Ser Arg
277 965 970 975
279 tac gtg cgg ctg cgc cag cgc ctc tgc cgc cag agt gtc ctc ctc tgg 3091
280 Tyr Val Arg Leu Arg Gln Arg Leu Cys Arg Gln Ser Val Leu Leu Trp
281 980 985 990 995
283 ccc cac cag ccc agt ggt cag cgc agc ttc tgg gcc cag ctg ggc atg 3139
284 Pro His Gln Pro Ser Gly Gln Arg Ser Phe Trp Ala Gln Leu Gly Met
285 1000 1005 1010
287 gcc ctg acc agg gac aac cac cac ttc tat aac cgg aac ttc tgc cag 3187
288 Ala Leu Thr Arg Asp Asn His His Phe Tyr Asn Arg Asn Phe Cys Gln
289 1015 1020 1025
291 gga ccc acg gcc gaa tag ccgtgagccg gaatcctgca cgggtgccacc 3235
292 Gly Pro Thr Ala Glu
293 1030
295 tccacactca cctcacctct gc 3257
298 <210> SEQ ID NO: 2
299 <211> LENGTH: 1032
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens
303 <400> SEQUENCE: 2
304 Met Gly Phe Cys Arg Ser Ala Leu His Pro Leu Ser Leu Leu Val Gln
305 1 5 10 15
306 Ala Ile Met Leu Ala Met Thr Leu Ala Leu Gly Thr Leu Pro Ala Phe
307 20 25 30
308 Leu Pro Cys Glu Leu Gln Pro His Gly Leu Val Asn Cys Asn Trp Leu
309 35 40 45
310 Phe Leu Lys Ser Val Pro His Phe Ser Met Ala Ala Pro Arg Gly Asn
311 50 55 60
312 Val Thr Ser Leu Ser Leu Ser Ser Asn Arg Ile His His Leu His Asp
313 65 70 75 80
314 Ser Asp Phe Ala His Leu Pro Ser Leu Arg His Leu Asn Leu Lys Trp
315 85 90 95
316 Asn Cys Pro Pro Val Gly Leu Ser Pro Met His Phe Pro Cys His Met
317 100 105 110
318 Thr Ile Glu Pro Ser Thr Phe Leu Ala Val Pro Thr Leu Glu Glu Leu
319 115 120 125
320 Asn Leu Ser Tyr Asn Asn Ile Met Thr Val Pro Ala Leu Pro Lys Ser

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/088,567

DATE: 04/02/2002

TIME: 12:40:51

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04022002\J088567.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date